

## 配列表

<110> 学校法人慶應義塾(Keio University)

<120> c-Fos蛋白質と複合体を形成する蛋白質、及び、それをコードする核酸、ならびに、それらの利用方法

<130> P393-0P1718

<150> JP 2002-360046

<151> 2002-12-11

<160> 191

<170> PatentIn version 3.0

<210> 1

<211> 184

<212> PRT

<213> Mus musculus

<400> 1

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35 40 45

Ala Asp Arg Leu Lys His Leu Thr Ser Arg Leu Gly His Leu Thr Asp  
50 55 60

Arg Ser Trp His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu  
65 70 75 80

Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Gln Arg Tyr  
85 90 95

Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr  
100 105 110

Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg  
115 120 125

Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met  
130 135 140

His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu  
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Ala Asp Arg Gln Arg His Leu Ala Asp Arg Leu Arg His Leu Ala Asp

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165 170 175  
Lys Leu Arg His Gln Leu Gln Leu  
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Ala Asp Arg Gln Arg His Asp  
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<213> Mus musculus

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<213> Mus musculus

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Ala Asp Arg Gln Arg His Asp  
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<212> PRT

<213> *Mus musculus*

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Val Thr Ser Gly Ser Arg Gln Glu Asn Gly Ala Ser Val Ile Leu Arg  
35 40 45  
Asp Ile Ala Arg Ala Arg Glu Asn Ile Gln Lys Ser Leu Ala Gly Ser  
50 55 60  
Ser Gly Pro Gly Ala Ser Ser Gly Pro Gly Asp His Ser Glu Leu  
65 70 75 80  
Ile Val Arg Ile Thr Ser Leu Glu Val Glu Asn Gln Asn Leu Arg Gly  
85 90 95  
Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys Leu Glu Ala Arg Leu  
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Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg Ala Thr Ala Pro Gln  
115 120 125  
Thr Gln His Val Ser Pro Met Arg Gln Val Glu Pro Pro Thr Lys Lys  
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145 150 155 160  
Gly Ser Asp Glu Glu Glu Glu Asp Lys Glu Ala Ala Arg Leu Arg Glu  
165 170 175  
Glu Arg Leu Arg Gln Tyr Ala Glu Lys Lys Ala Lys Lys Pro Thr Leu  
180 185 190  
Val Ala Lys Ser Ser Ile Leu Leu Asp Val Lys Pro Trp Asp Asp Glu  
195 200 205

Thr Asp Met Ala Gln Leu Glu Thr Cys Val Arg Ser Ile Gln Leu Asp  
210 215 220  
Gly Leu Val Trp Gly Ala Ser Lys Leu Val Pro Val Gly Tyr Gly Ile  
225 230 235 240  
Arg Lys Leu Gln Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr  
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<400> 16  
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<210> 17  
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<213> *Mus musculus*

<400> 17  
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Ala Pro Gln Thr Arg  
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<210> 18  
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<213> Mus musculus

<400> 18

His Ser Glu Leu Ile Val Arg Ile Asn Ser Leu Glu Val Glu Asn Gln  
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<210> 19

<211> 54

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<213> Mus musculus

<400> 19

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35 40 45  
Thr Ala Pro Gln Thr Arg  
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<210> 20

<211> 268

<212> PRT

<213> Mus musculus

<400> 20

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20 25 30  
Tyr Gln Ala Gln Lys Asn Glu Arg Glu Ser Ile Arg Gln Lys Leu Ala  
35 40 45  
Leu Gly Ser Phe Phe Asp Asp Gly Pro Gly Ile Tyr Thr Ser Cys Ser  
50 55 60  
Lys Ser Gly Lys Pro Ser Leu Ser Ala Arg Leu Gln Ser Gly Met Asn

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115	120	125	
Glu Ser Glu Ser Leu Asp Asp Met Asp Phe Leu Thr Arg Gln Lys Lys			
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Leu Gln Ala Glu Ala Lys Met Ala Leu Ala Met Ala Lys Pro Met Ala			
145	150	155	160
Lys Met Gln Val Glu Val Glu Arg Gln Asn Arg Lys Lys Ser Pro Val			
165	170	175	
Ala Asp Leu Leu Pro His Met Pro His Ile Ser Glu Cys Leu Met Lys			
180	185	190	
Arg Ser Leu Lys Pro Thr Asp Leu Arg Asp Met Thr Ile Gly Gln Leu			
195	200	205	
Gln Val Ile Val Asn Asp Leu His Ser Gln Ile Glu Ser Leu Asn Glu			
210	215	220	
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<212> PRT

<213> Mus musculus

<400> 21

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Pro Thr Asp Leu Arg Asp Met Thr Ile Gly Gln Leu Gln Val Ile Val			
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Asn Asp Leu His Ser Gln Ile Glu Ser Leu Asn Glu Glu Leu Val Gln			
35	40	45	

Leu Leu Leu Ile Arg Asp Glu Leu His Thr Glu Gln Asp Ala Met Leu			
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Val Asp Ile Glu Asp Leu Thr Arg His Ala Glu Arg Glu Gln			
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<210> 22  
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 Asn Asp Leu His Ser Gln Ile Glu Arg Leu Asn Glu Glu Leu Val Gln  
 35 40 45  
 Leu Leu Leu Ile Arg Asp Glu Leu His Thr Glu Gln Asp Ala Met Leu  
 50 55 60  
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<210> 23  
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 gacagactga tgcattctaac agacagactg aggcatctag cagacagaca gaggcatcta 480  
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ctaacagaca	gactgaggca	tctagcagac	agacagaggc	acgac	165	
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<212>	DNA					
<213>	Mus musculus					
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ctaacagaca	gactgaggca	tctagcagac	agacagaggc	acgac	165	
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<212>	DNA					
<213>	Mus musculus					
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<212>	DNA					
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<210>	29					
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&lt;212&gt; DNA

&lt;213&gt; Mus musculus

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&lt;210&gt; 30

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 30

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&lt;210&gt; 31

&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 31

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&lt;211&gt; 165

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 32

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&lt;211&gt; 135

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

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&lt;211&gt; 165

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 38

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&lt;210&gt; 39

&lt;211&gt; 843

&lt;212&gt; DNA

<213> *Mus musculus*

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actccccgag ccacggcccc acagacccaa catgtctctc ctatgcgtca agtggagccc	420
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ggcagtgacg aggaggaaga agataaggag gctgcccac tacggagga gaggctacgc	540
cagtacgcag agaagaaggc caagaagccc acactggtg ccaaattctc catccttttgc	600
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cggaagctgc agatccagtg tgtggggag gatgacaaag tggcaccga cttgctcgag	780
gaggagatca ccaaatttga ggagcatgtg cagagtgtcg acatgcgac tttcgacaag	840
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&lt;210&gt; 40

&lt;211&gt; 162

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 40

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gtgggtgcaag atttgcagca ggccatttcc aagttggagg cccggctgag ctctcttagag	120
aagagttcac ctactccccg agccacggcc ccacagaccc ga	162

&lt;210&gt; 41

&lt;211&gt; 159

<212> DNA

<213> Mus musculus

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<211> 162

<212> DNA

<213> Mus musculus

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<211> 804

<212> DNA

<213> Mus musculus

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accagctgca gcaaaagtgg gaagccaagc ctctctgcaa gactacagag cgggatgaac 240  
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aggcaaaaga agctacaagc tgaagccaaa atggctctgg ccatggccaa accaatggcc 480  
aaaatgcaag tagaagtggaa aagacagaac agaaaaaagt ctcccgatgc tgatcttc 540

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ccacacatgc ctcacataag cgaatgttg atgaaaagaa gcttaaagcc caccgacctg	600
agagacatga ctatcgca gctacaagtg atcgtcaatg acctccactc ccagattgaa	660
atgttgaatg aagagtttgt ccagctgctc cttattcgag atgagctgca cacagaacaa	720
gatgccatgc tggtgacat tgaagacttg actagacacg ctgagagtca gcagaagcac	780
atggctgaga aatgccccgc gaag	804

&lt;210&gt; 45

&lt;211&gt; 234

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 45

ccacacacgc ctcacataag cgaatgttg atgaaaagaa gcttaaagcc caccgacctg	60
agagacatga ctatcgca gctacaagtg atcgtcaatg acctccactc ccagattgaa	120
atgttgaatg aagagtttgt ccagctgctc cttattcgag atgagctgca cacagaacaa	180
gatgccatgc tggtgacat tgaagacttg actagacacg ctgagaggga gcag	234

&lt;210&gt; 46

&lt;211&gt; 234

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 46

ccacacatgc ctcacataag cgaatgttg atgaaaagaa gcttaaagcc caccgacctg	60
agagacatga ctatcgca gctacaagtg atcgtcaatg acctccactc ccagattgag	120
cgtttgaatg aagagtttgt ccagctgctc cttattcgag atgagctgca cacagaacaa	180
gatgccatgc tggtgacat tgaagacttg actagacacg ctgagaagga gcag	234

&lt;210&gt; 47

&lt;211&gt; 191

&lt;212&gt; PRT

<213> *Mus musculus*

&lt;400&gt; 47

Met Pro Leu Arg His Leu Ala Asp Arg Leu Gly His Leu Ala Asp Arg			
1	5	10	15
Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg			
20	25	30	
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Lys His Leu			
35	40	45	
Ala Asp Arg Leu Lys His Leu Thr Asp Arg Leu Gly His Leu Thr Asp			
50	55	60	
Arg Ser Trp His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu			

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65	70	75	80
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Gln Arg Tyr			
85	90		95
Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr			
100	105		110
Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg			
115	120		125
Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met			
130	135		140
His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu			
145	150		160
Ala Asp Arg Gln Arg His Leu Ala Asp Arg Gln Arg His Leu Ala Asp			
165	170		175
Arg Leu Arg His Leu Ala Asp Lys Leu Arg His Gln Leu Gln Leu			
180	185		190

&lt;210&gt; 48

&lt;211&gt; 71

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 48

Ile Glu Ala Ser Asn Arg Gln Ile Gly Ala Ser Asn Arg Gln Thr Glu			
1	5	10	15
Ala Ser Asn Arg Gln Ile Gly His Leu Thr Asp Arg Leu Arg His Leu			
20	25		30
Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp			
35	40		45
Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Gln			
50	55		60
Arg His Leu Ala Asp Arg Leu			
65	70		

&lt;210&gt; 49

&lt;211&gt; 55

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 49

Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg			
1	5	10	15
Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met			
20	25		30

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His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu  
35 40 45

Ala Asp Arg Gln Arg His Asp  
50 55

<210> 50

<211> 45

<212> PRT

<213> Mus musculus

<400> 50

Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg  
1 5 10 15

Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met  
20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln  
35 40 45

<210> 51

<211> 45

<212> PRT

<213> Mus musculus

<400> 51

Asp Arg Leu Gly Arg Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg  
1 5 10 15

Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met  
20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln  
35 40 45

<210> 52

<211> 45

<212> PRT

<213> Mus musculus

<400> 52

Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg Tyr Leu Thr Asp Arg  
1 5 10 15

Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met  
20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln  
35 40 45

<210> 53  
<211> 45  
<212> PRT  
<213> *Mus musculus*

<400> 53  
Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg  
1 5 10 15  
Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Thr  
20 25 30  
His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln  
35 40 45

<210> 54  
<211> 45  
<212> PRT  
<213> *Mus musculus*

<400> 54  
Asp Arg Leu Gly His Leu Thr Asp Arg Leu Lys His Leu Thr Asp Arg  
1 5 10 15  
Leu Gly His Leu Thr Asp Arg Leu Ile His Leu Thr Asp Arg Leu Met  
20 25 30  
His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln  
35 40 45

<210> 55  
<211> 45  
<212> PRT  
<213> *Mus musculus*

<400> 55  
Gly Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg  
1 5 10 15  
Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met  
20 25 30  
His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln  
35 40 45

<210> 56  
<211> 38  
<212> PRT

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&lt;213&gt; Mus musculus

&lt;400&gt; 56

Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg  
1 5 10 15  
Leu Arg His Leu Ala Asp Arg Leu Lys His Leu Ala Asp Arg Leu Lys  
20 25 30  
His Leu Thr Asn Arg Lys  
35

&lt;210&gt; 57

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 57

Met Pro Leu Arg His Leu Ala Asp Arg Leu Gly His Leu Ala Asp Arg  
1 5 10 15  
Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg  
20 25 30  
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu  
35 40 45  
Ala Asp Arg Leu Lys His Leu Thr Asp Arg Leu Gly His Leu Thr Asp  
50 55 60  
Arg Ser Trp His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu  
65 70 75 80  
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Gln Arg Tyr  
85 90 95  
Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr  
100 105 110  
Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg  
115 120 125  
Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met  
130 135 140  
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu  
145 150 155 160  
Ala Asp Arg Gln Arg His Leu Ala Asp Arg Leu Arg His Leu Ala Asp  
165 170 175  
Lys Leu Arg His Gln Leu Gln Leu  
180

&lt;210&gt; 58

&lt;211&gt; 79

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&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 58

Glu Lys Val Lys Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr  
1 5 10 15  
Ala Asn Thr Leu Arg Glu Gln Val Ala Leu Leu Lys Gln Lys Val Met  
20 25 30  
Asn His Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln Leu Gln  
35 40 45  
Thr Phe Trp Glu Gln Thr Val Arg Ala Glu Gly Gln Trp Lys Lys Lys  
50 55 60  
Asn Asn Arg Asp Lys Leu Glu Asn Leu Thr Gly Cys Asp Arg Glu  
65 70 75

&lt;210&gt; 59

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 59

Arg Ile Lys Ala Glu Arg Lys Arg Met Arg Asn Arg Ile Ala Ala Ser  
1 5 10 15  
Glu Cys Arg Lys Arg Lys Leu Glu Arg Ile Ala Arg Leu Glu Glu Lys  
20 25 30  
Val Lys Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn  
35 40 45  
Met Leu Arg Glu Gln Val Ala Gln Leu Lys Gln Lys Val Met Asn His  
50 55 60  
Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln  
65 70 75

&lt;210&gt; 60

&lt;211&gt; 49

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 60

Gly His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His  
1 5 10 15  
Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala  
20 25 30  
Asp Arg Leu Arg His Leu Ala Asp Arg Leu Lys His Leu Thr Asp Arg

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35

40

45

Tyr

&lt;210&gt; 61

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 61

His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu  
1 5 10 15Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Thr Asp  
20 25 30Arg Leu Met His Leu Thr Asp Arg Leu Gly His Leu Ala Asp Arg Gln  
35 40 45Arg His Leu Ala Asp Arg Gln Arg  
50 55

&lt;210&gt; 62

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 62

Ala Asp Arg Leu Gly His Leu Ala Asp Arg Leu Arg His Leu Thr Asp  
1 5 10 15Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu  
20 25 30Arg His Leu Ala Asp Arg Leu Arg His Leu Ala Asp  
35 40

&lt;210&gt; 63

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 63

Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp  
1 5 10 15Arg Leu Arg His Leu Thr Asp Arg Leu Arg His  
20 25

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<210> 64  
<211> 53  
<212> PRT  
<213> *Mus musculus*

<400> 64  
Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp  
1 5 10 15  
Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu  
20 25 30  
Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His  
35 40 45  
Leu Ala Asp Arg Pro  
50

<210> 65  
<211> 46  
<212> PRT  
<213> *Mus musculus*

<400> 65  
Arg Gln Arg His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu  
1 5 10 15  
Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His  
20 25 30  
Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg Pro  
35 40 45

<210> 66  
<211> 39  
<212> PRT  
<213> *Mus musculus*

<400> 66  
Asp Arg Leu Ser His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg  
1 5 10 15  
Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg  
20 25 30  
His Leu Ala Asp Arg Gln Arg  
35

<210> 67  
<211> 39

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&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 67

Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg

1 5 10 15

Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg

20 25 30

His Leu Ala Asp Arg Gln Arg

35

&lt;210&gt; 68

&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 68

Gly Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg

1 5 10 15

Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg

20 25 30

His Leu Ala Asp Arg Gln Arg

35

&lt;210&gt; 69

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 69

Tyr Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu

1 5 10 15

Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp

20 25 30

Arg Leu Arg His Leu Thr Asp Arg Leu Gly Gln

35 40

&lt;210&gt; 70

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 70

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Tyr Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu  
1 5 10 15  
Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp  
20 25 30  
Arg Leu Arg His Leu Thr Asp Arg Leu Gly Gln  
35 40

&lt;210&gt; 71

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 71

Arg Ile Lys Ala Glu Arg Lys Arg Met Arg Asn Arg Ile Ala Ala Ser  
1 5 10 15  
Lys Cys Arg Lys Arg Lys Leu Glu Arg Ile Ala Arg Leu Glu Glu Lys  
20 25 30  
Val Lys Thr Leu Lys Ala Gln Asn Ser Glu Leu Ala Ser Thr Ala Asn  
35 40 45  
Met Leu Arg Glu Gln Val Ala Gln Leu Lys Gln Lys Val Met Asn His  
50 55 60  
Val Asn Ser Gly Cys Gln Leu Met Leu Thr Gln Gln  
65 70 75

&lt;210&gt; 72

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 72

Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly  
1 5 10 15  
His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu  
20 25 30  
Ala Asp Arg Gln Arg His Leu Ala Asp Arg Gln Lys  
35 40

&lt;210&gt; 73

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 73

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Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly  
1 5 10 15  
His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu  
20 25 30  
Ala Asp Thr Gln  
35

<210> 74  
<211> 44  
<212> PRT  
<213> *Mus musculus*

<400> 74  
Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His  
1 5 10 15  
Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr  
20 25 30  
Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His  
35 40

<210> 75  
<211> 51  
<212> PRT  
<213> *Mus musculus*

<400> 75  
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His  
1 5 10 15  
Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr  
20 25 30  
Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu Ala Asp Arg  
35 40 45  
Gln Arg His  
50

<210> 76  
<211> 51  
<212> PRT  
<213> *Mus musculus*

<400> 76  
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His  
1 5 10 15

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Leu Thr Asp Arg Leu Gly Arg Leu Thr Asp Arg Leu Met His Leu Thr  
20 25 30  
Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu Ala Asp Arg  
35 40 45  
Gln Arg His  
50

<210> 77  
<211> 584  
<212> PRT  
<213> Mus musculus

<400> 77  
Met Ser His Gln Pro Leu Ser Cys Leu Thr Glu Lys Gly Asp Ser Pro  
1 5 10 15  
Cys Glu Thr Pro Gly Asn Gly Pro Ser Asn Met Val His Pro Ser Leu  
20 25 30  
Asp Thr Phe Thr Pro Glu Glu Leu Leu Gln Gln Met Lys Glu Leu Leu  
35 40 45  
Val Glu Asn His Gln Leu Lys Glu Ala Met Lys Leu Asn Asn Gln Ala  
50 55 60  
Met Lys Gly Arg Phe Glu Glu Leu Ser Ala Trp Thr Glu Lys Gln Lys  
65 70 75 80  
Glu Glu Arg Leu Leu Phe Glu Met Gln Ser Lys Glu Val Lys Glu Arg  
85 90 95  
Leu Lys Ala Leu Thr His Glu Asn Glu Arg Leu Lys Glu Glu Leu Gly  
100 105 110  
Lys Phe Lys Glu Lys Ser Glu Lys Pro Leu Glu Asp Leu Thr Gly Gly  
115 120 125  
Tyr Arg Tyr Pro Arg Ala Leu Glu Glu Glu Val Glu Lys Leu Lys Thr  
130 135 140  
Gln Val Glu Gln Glu Val Glu His Leu Lys Ile Gln Val Met Arg Leu  
145 150 155 160  
Arg Ala Glu Lys Ala Asp Leu Leu Gly Ile Val Ser Glu Leu Gln Leu  
165 170 175  
Lys Leu Asn Ser Gly Gly Ser Ser Glu Asp Ser Phe Val Glu Ile Arg  
180 185 190  
Met Thr Glu Gly Glu Thr Glu Gly Ala Met Lys Glu Met Lys Asn Cys  
195 200 205  
Pro Thr Pro Thr Arg Thr Asp Pro Ile Ser Leu Ser Asn Cys Thr Glu  
210 215 220  
Asp Ala Arg Ser Cys Ala Glu Phe Glu Glu Leu Thr Val Ser Gln Leu  
225 230 235 240

Leu Leu Cys Leu Arg Glu Gly Asn Gln Lys Val Glu Arg Leu Glu Val  
                  245                 250                 255  
 Ala Leu Arg Glu Ala Lys Glu Arg Ile Ser Asp Phe Glu Lys Lys Ala  
                  260                 265                 270  
 Asn Gly His Ser Ser Thr Glu Lys Gln Thr Ala Arg Arg Ala Asp Arg  
                  275                 280                 285  
 Glu Lys Glu Asp Lys Gly Gln Glu Ser Val Gly Ser Glu Val Glu Thr  
                  290                 295                 300  
 Leu Ser Ile Gln Val Thr Ser Leu Phe Lys Glu Leu Gln Glu Ala His  
                  305                 310                 315                 320  
 Thr Lys Leu Ser Glu Ala Glu Leu Met Lys Lys Arg Leu Gln Glu Lys  
                  325                 330                 335  
 Cys Gln Ala Leu Glu Arg Lys Asn Ser Ala Thr Pro Ser Glu Leu Asn  
                  340                 345                 350  
 Glu Lys Gln Glu Leu Val Tyr Ser Asn Lys Lys Leu Glu Leu Gln Val  
                  355                 360                 365  
 Glu Ser Met Arg Ser Glu Ile Lys Met Glu Gln Ala Lys Thr Glu Glu  
                  370                 375                 380  
 Glu Lys Ser Arg Leu Ala Thr Leu Gln Ala Thr His Asn Lys Leu Leu  
                  385                 390                 395                 400  
 Gln Glu His Asn Lys Ala Leu Lys Thr Ile Glu Glu Leu Thr Lys Gln  
                  405                 410                 415  
 Gln Ala Glu Lys Val Asp Lys Met Leu Leu Gln Glu Leu Ser Glu Lys  
                  420                 425                 430  
 Leu Glu Leu Ala Glu Gln Ala Leu Ala Ser Lys Gln Leu Gln Met Asp  
                  435                 440                 445  
 Glu Met Lys Gln Thr Leu Ala Lys Gln Glu Glu Asp Leu Glu Thr Met  
                  450                 455                 460  
 Ala Val Leu Arg Ala Gln Met Glu Val Tyr Cys Ser Asp Phe His Ala  
                  465                 470                 475                 480  
 Glu Arg Ala Ala Arg Glu Lys Ile His Glu Glu Lys Glu Gln Leu Ala  
                  485                 490                 495  
 Leu Gln Leu Ala Ile Leu Leu Lys Glu Asn Asn Asp Ile Glu Glu Gly  
                  500                 505                 510  
 Gly Ser Arg Gln Ser Leu Met Glu Met Gln Cys Arg His Gly Ala Arg  
                  515                 520                 525  
 Thr Ser Asp Ser Asp Gln Gln Thr Tyr Leu Phe Gln Arg Gly Ala Glu  
                  530                 535                 540  
 Asp Arg Ser Trp Gln His Gly Gln Gln Pro Arg Ser Ile Pro Ile His  
                  545                 550                 555                 560  
 Ser Cys Pro Lys Cys Gly Glu Val Leu Pro Asp Ile Asp Thr Leu Gln  
                  565                 570                 575  
 Ile His Val Met Asp Cys Ile Ile

580

<210> 78  
<211> 108  
<212> PRT  
<213> *Mus musculus*

<400> 78

Leu Lys Thr Gln Val Glu Gln Glu Val Glu His Leu Lys Ile Gln Val  
1 5 10 15

Met Arg Leu Arg Ala Glu Lys Ala Asp Leu Leu Gly Ile Val Ser Glu  
20 25 30

Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser Ser Glu Asp Ser Phe Val  
35 40 45

Glu Ile Arg Met Thr Glu Gly Glu Thr Glu Gly Ala Met Lys Glu Met  
50 55 60

Lys Ser Cys Pro Thr Pro Thr Arg Thr Asp Pro Ile Ser Leu Ser Asn  
65 70 75 80

Cys Thr Glu Asp Ala Arg Ser Cys Ala Glu Phe Glu Glu Leu Thr Val  
85 90 95

Ser Gln Leu Leu Cys Leu Arg Glu Gly Asn Gln  
100 105

<210> 79  
<211> 62  
<212> PRT  
<213> *Mus musculus*

<400> 79

His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu  
1 5 10 15

Leu Gly Ile Val Ser Glu Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser  
20 25 30

Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu  
35 40 45

Gly Ala Met Lys Glu Met Lys Asn Cys Pro Thr Pro Thr Arg  
50 55 60

<210> 80  
<211> 62  
<212> PRT  
<213> *Mus musculus*

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&lt;400&gt; 80

His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu  
1 5 10 15  
Leu Gly Ile Val Ser Glu Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser  
20 25 30  
Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu  
35 40 45  
Gly Ala Met Lys Glu Met Lys Asn Cys Pro Ala Pro Thr Arg  
50 55 60

&lt;210&gt; 81

&lt;211&gt; 62

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 81

His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu  
1 5 10 15  
Leu Gly Ile Val Ser Glu Leu Arg Leu Lys Leu Asn Ser Gly Gly Ser  
20 25 30  
Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu  
35 40 45  
Gly Ala Met Lys Glu Met Lys Asn Cys Pro Thr Pro Thr Arg  
50 55 60

&lt;210&gt; 82

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 82

Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu  
1 5 10 15  
Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu  
20 25 30  
Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr  
35 40 45  
Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His  
50 55 60  
Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu Lys Leu Ser Thr  
65 70 75 80  
Arg Ser Pro Met Glu  
85 90 95

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Glu Glu Glu Ser Asp Ser  
100

<210> 83  
<211> 56  
<212> PRT  
<213> Mus musculus

<400> 83  
Arg Cys Arg Gln Lys Arg Lys Leu Trp Val Ser Ser Leu Glu Lys Lys  
1 5 10 15  
Ala Glu Glu Leu Thr Ser Gln Asn Ile Gln Leu Ser Asn Glu Val Thr  
20 25 30  
Leu Leu Arg Asn Glu Val Ala Gln Leu Lys Gln Leu Leu Leu Ala His  
35 40 45  
Lys Asp Cys Pro Val Thr Ala Gln  
50 55

<210> 84  
<211> 79  
<212> PRT  
<213> Mus musculus

<400> 84  
Arg Lys Trp Lys Gly Thr Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu  
1 5 10 15  
Val Glu Thr Pro Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn  
20 25 30  
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg  
35 40 45  
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys  
50 55 60  
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr  
65 70 75

<210> 85  
<211> 413  
<212> PRT  
<213> Mus musculus

<400> 85  
Met Gly Asp Asp Arg Pro Phe Val Cys Ser Ala Pro Gly Cys Gly Gln

1	5	10	15
Arg Phe Thr Asn Glu Asp His Leu Ala Val His Lys His Lys His Glu			
20	25	30	
Met Thr Leu Lys Phe Gly Pro Ala Arg Thr Asp Ser Val Ile Ile Ala			
35	40	45	
Asp Gln Thr Pro Thr Pro Thr Arg Phe Leu Lys Asn Cys Glu Glu Val			
50	55	60	
Gly Leu Phe Asn Glu Leu Ala Ser Ser Phe Glu His Glu Phe Lys Lys			
65	70	75	80
Ala Ser Asp Asp Asp Glu Lys Lys Gly Ala Ala Gly Pro Leu Asp Met			
85	90	95	
Ser Leu Pro Ser Thr Pro Asp Ile Lys Ile Lys Glu Glu Glu Pro Val			
100	105	110	
Glu Val Asp Ser Ser Pro Pro Asp Ser Pro Ala Ser Ser Pro Cys Ser			
115	120	125	
Pro Pro Leu Lys Glu Lys Glu Val Thr Thr Lys Pro Val Val Ile Ser			
130	135	140	
Thr Pro Thr Pro Thr Ile Val Arg Pro Gly Ser Leu Pro Leu His Leu			
145	150	155	160
Gly Tyr Asp Pro Leu His Pro Thr Leu Pro Ser Pro Thr Ser Val Ile			
165	170	175	
Thr Gln Ala Pro Pro Ser Asn Arg Gln Ile Gly Ser Pro Thr Gly Ser			
180	185	190	
Leu Pro Leu Val Met His Leu Ala Asn Gly Gln Thr Met Pro Met Leu			
195	200	205	
Pro Gly Pro Pro Val Gln Met Pro Ser Val Ile Ser Leu Ala Arg Pro			
210	215	220	
Val Ser Met Val Pro Asn Ile Pro Gly Ile Pro Gly Pro Pro Val Asn			
225	230	235	240
Asn Ser Gly Ser Ile Ser Pro Ser Gly His Pro Met Pro Ser Glu Ala			
245	250	255	
Lys Met Arg Leu Lys Ala Thr Leu Thr His Gln Val Ser Ser Ile Asn			
260	265	270	
Gly Gly Cys Gly Met Val Val Gly Thr Ala Ser Thr Met Val Thr Ala			
275	280	285	
Arg Pro Glu Gln Asn Gln Ile Leu Ile Gln His Pro Asp Ala Pro Ser			
290	295	300	
Pro Ala Gln Pro Gln Val Ser Pro Ala Gln Pro Thr Pro Ser Thr Gly			
305	310	315	320
Gly Arg Arg Arg Arg Thr Val Asp Glu Asp Pro Asp Glu Arg Arg Gln			
325	330	335	
Arg Phe Leu Glu Arg Asn Arg Ala Ala Ser Arg Cys Arg Gln Lys			
340	345	350	

Arg Lys Leu Trp Val Ser Ser Leu Glu Lys Lys Ala Glu Glu Leu Thr  
355 360 365  
Ser Gln Asn Ile Gln Leu Ser Asn Glu Val Thr Leu Leu Arg Asn Glu  
370 375 380  
Val Ala Gln Leu Lys Gln Leu Leu Ala His Lys Asp Cys Pro Val  
385 390 395 400  
Thr Ala Leu Gln Lys Lys Thr Gln Gly Tyr Leu Gly Lys  
405 410

<210> 86

<211> 58

<212> PRT

<213> Mus musculus

<400> 86

Arg Ala Ala Ala Ser Arg Cys Arg Gln Lys Arg Lys Leu Trp Val Ser  
1 5 10 15  
Ser Leu Glu Lys Lys Ala Glu Glu Leu Thr Ser Gln Asn Ile Gln Leu  
20 25 30  
Ser Asn Lys Val Thr Leu Leu Arg Asn Glu Val Ala Gln Leu Lys Gln  
35 40 45  
Leu Leu Leu Ala His Lys Asp Cys Pro Gly  
50 55

<210> 87

<211> 1031

<212> PRT

<213> Mus musculus

<400> 87

Met Thr Asn Pro Lys Gly Lys Arg Arg Gly Thr Gln Ser Met Phe Ser  
1 5 10 15  
Arg Pro Phe Arg Lys His Gly Val Val Ser Leu Ala Thr Tyr Met Arg  
20 25 30  
Ile Tyr Lys Lys Arg Asp Ile Val Asp Ile Lys Gly Met Gly Thr Val  
35 40 45  
Gln Lys Gly Met Pro Cys Lys Cys Tyr His Gly Lys Thr Gly Arg Val  
50 55 60  
Tyr Asn Val Thr Gln His Ala Met Gly Ile Ile Val Asn Lys Gln Val  
65 70 75 80  
Lys Gly Lys Ile Leu Ala Lys Arg Ile Asn Val Gln Ile Glu His Ile  
85 90 95  
Lys His Ser Lys Ser Arg Asp Gly Phe Leu Lys Gln Gly Glu Ala Ala

100	105	110	
His Phe Glu Tyr Leu Leu Tyr Pro Leu His Ser Ala Ser	Ile Thr Gly		
115	120	125	
Leu Ala Thr Cys Ile Arg Lys Pro Leu Ile Ala Thr Cys Ser Leu Asp			
130	135	140	
Arg Ser Val Arg Ile Trp Asn Tyr Glu Ser Asn Ser Ser Cys Cys Lys			
145	150	155	160
Ala Leu Arg Glu Asp Leu Trp Leu Leu Leu Phe His Ile Thr Ala			
165	170	175	
Pro Ala Thr Leu Ser Ser Pro Pro Val Ile Phe Phe Cys Thr Leu Glu			
180	185	190	
Leu Tyr Lys Glu Tyr Gln Glu Glu Ala Tyr Thr Val Ser Leu His Pro			
195	200	205	
Ser Gly His Tyr Ile Val Val Gly Phe Ala Asp Lys Leu Arg Leu Met			
210	215	220	
Asn Leu Leu Ile Asp Asp Ile Arg Ser Phe Lys Glu Tyr Ser Val Arg			
225	230	235	240
Gly Cys Lys Glu Cys Ala Phe Ser Asn Gly Gly His Leu Phe Ala Ala			
245	250	255	
Val Asn Gly Asn Val Ile His Ile Phe Thr Thr Thr Asn Leu Glu Asn			
260	265	270	
Ile Asn Asn Leu Lys Gly His Thr Gly Lys Arg Glu Thr Glu Cys Val			
275	280	285	
Leu Lys Val Cys Ser Tyr Asn Ser Val Thr Ile Ser Pro Asp Gly Lys			
290	295	300	
Val Ile Phe Ala Val Gly Ser Asp Gln Thr Leu Lys Glu Ile Ala Asp			
305	310	315	320
Ser Leu Ile Leu Arg Glu Ile Pro Ala Phe Asp Val Val Tyr Thr Ala			
325	330	335	
Ile Thr Ile Ser His Ser Gly Arg Met Ile Phe Val Gly Thr Ser Val			
340	345	350	
Gly Thr Ile Arg Ala Met Lys Tyr Pro Leu Pro Leu Gln Arg Glu Phe			
355	360	365	
Asn Glu Tyr Gln Ala His Ala Gly Pro Val Thr Lys Ile Leu Leu Thr			
370	375	380	
Phe Asp Asp Gln Phe Leu Leu Thr Val Ser Glu Asp Gly Cys Leu Phe			
385	390	395	400
Thr Trp Lys Val Phe Asp Lys Glu Gly Arg Gly Ile Lys Arg Glu Arg			
405	410	415	
Glu Val Gly Phe Ala Glu Glu Val Leu Val Thr Lys Thr Asp Met Glu			
420	425	430	
Glu Lys Ile Leu His Arg Asn Leu Ala Thr Glu Phe Arg Arg Pro Met			
435	440	445	

Ser Lys His Leu Glu Cys Pro Thr Ser Glu Thr Gly Pro Leu Thr Thr  
450 455 460  
Ile Asn Ile Ser Pro Val Gln Pro Arg Pro Trp Gly His Val Leu Thr  
465 470 475 480  
Cys Arg Thr Pro Val Ser Thr Asp Ser Ala Val Ala Ser Thr Arg Gly  
485 490 495  
Ser Val Asp Ser Ala Val Lys Pro Asp Arg Ser Thr Pro Thr Gln Glu  
500 505 510  
Val Arg Ile Pro Pro Lys Pro Ala Ser Gly Val His Thr Arg Cys Gln  
515 520 525  
Leu Gly Val Gln Lys Gln Met Glu His Val Ser Val Val Met Glu Val  
530 535 540  
Arg Glu Thr Asn Arg Gln Arg Gln Gly Gly Ala Arg Asn Val Ile  
545 550 555 560  
Lys Ala Gln Ile Met Leu Glu Leu Lys Thr Arg Val Glu Glu Leu Lys  
565 570 575  
Met Glu Asn Glu Tyr Gln Leu Arg Leu Lys Asp Met Asn Tyr Ser Glu  
580 585 590  
Lys Ile Lys Glu Leu Thr Asp Lys Phe Ile Gln Glu Met Glu Ser Leu  
595 600 605  
Lys Thr Lys Asn Gln Val Leu Lys Thr Glu Lys Glu Lys Gln Asp Ile  
610 615 620  
Ser His Arg Glu His Leu Glu Asp Leu Ile Glu Arg Gln Ser Arg Glu  
625 630 635 640  
Leu Gln Asp Leu Glu Cys Cys Asn Asn Gln Lys Leu Leu Leu Glu Tyr  
645 650 655  
Glu Lys Tyr Gln Glu Leu Gln Leu Lys Ser Gln Arg Met Gln Glu Glu  
660 665 670  
Tyr Glu Lys Gln Leu Arg Asp Asn Asp Glu Thr Lys Ser Gln Ala Leu  
675 680 685  
Glu Glu Leu Thr Glu Phe Tyr Glu Ala Lys Leu Gln Glu Lys Thr Gly  
690 695 700  
Leu Leu Glu Glu Ala Leu Ser Thr Ala Ala Ser Pro Pro Leu Pro Ser  
705 710 715 720  
Ala His Val Leu Ser Pro Phe Pro Thr Leu Ser Gln Ala Gln Glu Asp  
725 730 735  
Val Arg Gln Gln Leu Arg Glu Phe Glu Glu Thr Lys Lys Gln Ile Glu  
740 745 750  
Glu Asp Glu Asp Arg Glu Ile Gln Asp Ile Lys Thr Lys Tyr Glu Arg  
755 760 765  
Lys Leu Arg Asp Glu Lys Glu Ser Asn Leu Arg Leu Lys Gly Glu Thr  
770 775 780  
Gly Ile Met Arg Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu

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785	790	795	800
Arg Thr Asn Asp Ile Glu Leu Leu Lys Thr Glu Gln Val Lys Leu Gln			
805	810	815	
Gly Val Ile Arg Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu			
820	825	830	
Ile Gln Glu Arg Asp Glu Thr Ile Gln Asp Lys Glu Lys Arg Ile Tyr			
835	840	845	
Asp Leu Lys Lys Lys Asn Gln Glu Leu Glu Lys Phe Lys Phe Val Leu			
850	855	860	
Asp Tyr Lys Ile Lys Glu Leu Lys Lys Gln Ile Glu Pro Arg Glu Asn			
865	870	875	880
Glu Ile Lys Val Met Lys Glu Gln Ile Gln Glu Asn Pro Val Asn His			
885	890	895	
Trp Leu Arg Ser Arg Glu Arg Glu Cys Val Thr Gln Pro Arg His Leu			
900	905	910	
Arg Leu Pro Ala Pro Gln Asn Lys Leu Asp Gly Asn Leu Ala Cys Gly			
915	920	925	
Pro Val Arg Gly Arg Leu Cys His Ser Asp Ala Thr Ser Gly Ala Leu			
930	935	940	
Asn Val Gln Gly Ile Leu Cys Leu Phe His Leu Pro Phe Pro Cys Asp			
945	950	955	960
Arg Thr Pro Ser Phe Phe Pro Gly Glu Ala Cys Leu Leu Val Phe Ser			
965	970	975	
Leu Leu Ile Asp Val Leu Cys Arg Pro Thr Ser Asp Val Pro Val Ala			
980	985	990	
Ala Gly Asp Phe Leu Pro Cys Gly Gly Pro Leu His Leu Pro Pro Glu			
995	1000	1005	
Leu His His Leu Thr Val Ile Arg Thr Asn Ala Ser Pro Gln Lys			
1010	1015	1020	
Cys Tyr Pro Pro Thr Ser Pro Leu			
1025	1030		

&lt;210&gt; 88

&lt;211&gt; 70

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 88

Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu Arg Thr Asn Asp			
1	5	10	15
Ile Glu Leu Leu Lys Ser Glu Arg Met Lys Leu Gln Gly Ile Ile Arg			
20	25	30	
Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu Ile Gln Glu Arg			

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35 40 45  
Asp Glu Thr Ile Gln Asp Met Glu Lys Leu Asp Tyr Lys Asp Asp Tyr  
50 55 60  
Asn Ser Asn Leu Glu Ile  
65 70

<210> 89  
<211> 56  
<212> PRT  
<213> Mus musculus

<400> 89  
Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu Arg Thr Asn Asp  
1 5 10 15  
Ile Glu Leu Leu Lys Ser Glu Arg Met Lys Leu Gln Gly Ile Ile Arg  
20 25 30  
Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu Ile Gln Glu Arg  
35 40 45  
Asp Glu Thr Ile Gln Asp Met Glu  
50 55

<210> 90  
<211> 217  
<212> PRT  
<213> Mus musculus

<400> 90  
Met Glu Val Glu Asn Glu Ala His Cys Cys Pro Gly Ser Ser Ser Gly  
1 5 10 15  
Gly Ser Arg Glu Tyr Lys Val Val Met Leu Gly Ala Gly Gly Val Gly  
20 25 30  
Lys Ser Ala Val Thr Met Gln Phe Ile Ser His Gln Phe Pro Asp Tyr  
35 40 45  
His Asp Pro Thr Ile Glu Asp Ala Tyr Lys Thr Gln Val Arg Ile Asp  
50 55 60  
Asn Glu Pro Ala Tyr Leu Asp Ile Leu Asp Thr Ala Gly Gln Ala Glu  
65 70 75 80  
Phe Thr Ala Met Arg Glu Gln Tyr Met Arg Gly Gly Glu Gly Phe Ile  
85 90 95  
Ile Cys Tyr Ser Val Thr Asp Arg Gln Ser Phe Gln Glu Ala Ala Lys  
100 105 110  
Phe Lys Glu Leu Ile Phe Gln Val Arg His Thr Tyr Glu Ile Pro Leu  
115 120 125

Val Leu Val Gly Asn Lys Ile Asp Leu Glu Gln Phe Arg Gln Val Ser  
130 135 140  
Thr Glu Glu Gly Met Asn Leu Ala Arg Asp Tyr Asn Cys Ala Phe Phe  
145 150 155 160  
Glu Thr Ser Ala Ala Leu Arg Phe Gly Ile Asp Asp Ala Phe Gln Gly  
165 170 175  
Leu Val Arg Glu Ile Arg Arg Lys Glu Ser Met Leu Ser Leu Val Glu  
180 185 190  
Arg Lys Leu Lys Arg Lys Asp Ser Leu Trp Lys Lys Ile Lys Ala Ser  
195 200 205  
Leu Lys Lys Arg Glu Asn Met Leu  
210 215

<210> 91  
<211> 50  
<212> PRT  
<213> *Mus musculus*

<400> 91  
Ala Ala Leu Arg Phe Gly Ile Asp Asp Ala Leu Gln Gly Leu Val Arg  
1 5 10 15  
Glu Ile Arg Arg Lys Glu Ser Met Leu Pro Leu Val Glu Arg Lys Leu  
20 25 30  
Lys Arg Lys Asp Ser Leu Trp Lys Lys Ile Lys Ala Ser Leu Lys Lys  
35 40 45  
Lys Arg  
50

<210> 92  
<211> 140  
<212> PRT  
<213> *Mus musculus*

<400> 92  
Gly Ala Thr Val Ile Thr Asn Leu Leu Ser Ala Ile Pro Tyr Ile Gly  
1 5 10 15  
Thr Thr Leu Val Glu Trp Ile Trp Gly Gly Phe Ser Val Asp Lys Ala  
20 25 30  
Thr Leu Thr Arg Phe Phe Ala Phe His Phe Ile Leu Pro Phe Ile Ile  
35 40 45  
Ala Ala Leu Ala Ile Val His Leu Leu Phe Leu His Glu Thr Gly Ser  
50 55 60  
Asn Asn Pro Thr Gly Leu Asn Ser Asp Ala Asp Lys Ile Pro Phe His

65	70	75	80												
Pro	Tyr	Tyr	Thr	Ile	Lys	Asp	Ile	Leu	Gly	Ile	Leu	Ile	Met	Phe	Leu
				85				90				95			
Ile	Leu	Met	Thr	Leu	Val	Leu	Phe	Phe	Pro	Asp	Met	Leu	Gly	Asp	Pro
					100			105			110				
Asp	Asn	Tyr	Met	Pro	Ala	Asn	Pro	Leu	Asn	Thr	Pro	Pro	His	Ile	Lys
					115			120			125				
Pro	Glu	Trp	Tyr	Phe	Leu	Phe	Ala	Tyr	Ala	Ile	Leu				
					130			135			140				

<210> 93  
<211> 41  
<212> PRT  
<213> *Mus musculus*

<400> 93  
 Ser Asp Ala Asp Lys Ile Pro Phe His Pro Tyr Tyr Thr Ile Lys Asn  
 1 5 10 15  
 Ile Leu Gly Ile Leu Ile Ile Phe Leu Ile Leu Ile Thr Leu Val Leu  
 20 25 30  
 Phe Phe Pro Asp Ile Leu Gly Asp Pro  
 35 40

<210> 94  
<211> 311  
<212> PRT  
<213> *Mus musculus*

<400> 94  
 Met Lys Ala Leu Trp Ala Val Leu Leu Val Thr Leu Leu Thr Gly Cys  
 1 5 10 15  
 Leu Ala Glu Gly Glu Pro Glu Val Thr Asp Gln Leu Glu Trp Gln Ser  
 20 25 30  
 Asn Gln Pro Trp Glu Gln Ala Leu Asn Arg Phe Trp Asp Tyr Leu Arg  
 35 40 45  
 Trp Val Gln Thr Leu Ser Asp Gln Val Gln Glu Glu Leu Gln Ser Ser  
 50 55 60  
 Gln Val Thr Gln Glu Leu Thr Ala Leu Met Glu Asp Thr Met Thr Glu  
 65 70 75 80  
 Val Lys Ala Tyr Lys Lys Glu Leu Glu Glu Gln Leu Gly Pro Val Ala  
 85 90 95  
 Glu Glu Thr Arg Ala Arg Leu Gly Lys Glu Val Gln Ala Ala Gln Ala  
 100 105 110

Arg Leu Gly Ala Asp Met Glu Asp Leu Arg Asn Arg Leu Gly Gln Tyr  
     115                    120                    125  
 Arg Asn Glu Val His Thr Met Leu Gly Gln Ser Thr Glu Glu Ile Arg  
     130                    135                    140  
 Ala Arg Leu Ser Thr His Leu Arg Lys Met Arg Lys Arg Leu Met Arg  
     145                    150                    155                    160  
 Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala Val Tyr Lys Ala Gly Ala  
     165                    170                    175  
 Arg Glu Gly Ala Glu Arg Gly Val Ser Ala Ile Arg Glu Arg Leu Gly  
     180                    185                    190  
 Pro Leu Val Glu Gln Gly Arg Gln Arg Thr Ala Asn Leu Gly Ala Gly  
     195                    200                    205  
 Ala Ala Gln Pro Leu Arg Asp Arg Ala Gln Ala Phe Gly Asp Arg Ile  
     210                    215                    220  
 Arg Gly Arg Leu Glu Glu Val Gly Asn Gln Ala Arg Asp Arg Leu Glu  
     225                    230                    235                    240  
 Glu Val Arg Glu His Met Glu Glu Val Arg Ser Lys Met Glu Glu Gln  
     245                    250                    255  
 Thr Gln Gln Ile Arg Leu Gln Ala Glu Ile Phe Gln Ala Arg Leu Lys  
     260                    265                    270  
 Gly Trp Phe Glu Pro Ile Val Glu Asp Met His Arg Gln Trp Ala Asn  
     275                    280                    285  
 Leu Met Glu Lys Ile Gln Ala Ser Val Ala Thr Asn Pro Ile Ile Thr  
     290                    295                    300  
 Pro Val Ala Gln Glu Asn Gln  
     305                    310

<210> 95  
 <211> 31  
 <212> PRT  
 <213> Mus musculus

<400> 95  
 Thr Glu Val Lys Ala Tyr Lys Lys Glu Leu Glu Glu Gln Leu Gly Pro  
   1                    5                    10                    15  
 Val Ala Glu Glu Thr Arg Ala Arg Leu Gly Lys Glu Glu Gln Gly  
     20                    25                    30

<210> 96  
 <211> 695  
 <212> PRT  
 <213> Mus musculus

&lt;400&gt; 96

Met Leu Pro Ser Leu Ala Leu Leu Leu Ala Ala Trp Thr Val Arg  
1 5 10 15  
Ala Leu Glu Val Pro Thr Asp Gly Asn Ala Gly Leu Leu Ala Glu Pro  
20 25 30  
Gln Ile Ala Met Phe Cys Gly Lys Leu Asn Met His Met Asn Val Gln  
35 40 45  
Asn Gly Lys Trp Glu Ser Asp Pro Ser Gly Thr Lys Thr Cys Ile Gly  
50 55 60  
Thr Lys Glu Gly Ile Leu Gln Tyr Cys Gln Glu Val Tyr Pro Glu Leu  
65 70 75 80  
Gln Ile Thr Asn Val Val Glu Ala Asn Gln Pro Val Thr Ile Gln Asn  
85 90 95  
Trp Cys Lys Arg Gly Arg Lys Gln Cys Lys Thr His Thr His Ile Val  
100 105 110  
Ile Pro Tyr Arg Cys Leu Val Gly Glu Phe Val Ser Asp Ala Leu Leu  
115 120 125  
Val Pro Asp Lys Cys Lys Phe Leu His Gln Glu Arg Met Asp Val Cys  
130 135 140  
Glu Thr His Leu His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu  
145 150 155 160  
Lys Ser Thr Asn Leu His Asp Tyr Gly Met Leu Leu Pro Cys Gly Ile  
165 170 175  
Asp Lys Phe Arg Gly Val Glu Phe Val Cys Cys Pro Leu Ala Glu Glu  
180 185 190  
Ser Asp Ser Val Asp Ser Ala Asp Ala Glu Glu Asp Asp Ser Asp Val  
195 200 205  
Trp Trp Val Gly Ala Asp Thr Asp Tyr Ala Asp Gly Gly Glu Asp Lys  
210 215 220  
Val Val Glu Val Ala Glu Glu Glu Val Ala Asp Val Glu Glu Glu  
225 230 235 240  
Glu Ala Asp Asp Asp Glu Asp Val Glu Asp Gly Asp Glu Val Glu Glu  
245 250 255  
Glu Ala Glu Glu Pro Tyr Glu Glu Ala Thr Glu Arg Thr Thr Ser Thr  
260 265 270  
Ala Thr Thr Thr Thr Thr Thr Glu Ser Val Glu Glu Val Val Val Arg  
275 280 285  
Val Pro Thr Thr Ala Ala Ser Thr Pro Asp Ala Val Asp Lys Tyr Leu  
290 295 300  
Glu Thr Pro Gly Asp Glu Asn Glu His Ala His Phe Gln Lys Ala Lys  
305 310 315 320  
Glu Arg Leu Glu Ala Lys His Arg Glu Arg Met Ser Gln Val Met Arg  
325 330 335

Glu Trp Glu Glu Ala Glu Arg Gln Ala Lys Asn Leu Pro Lys Ala Asp .  
340 345 350  
Lys Lys Ala Val Ile Gln His Phe Gln Glu Lys Val Glu Ser Leu Glu  
355 360 365  
Gln Glu Ala Ala Asn Glu Arg Gln Gln Leu Val Glu Thr His Met Ala  
370 375 380  
Arg Val Glu Ala Met Leu Asn Asp Arg Arg Arg Leu Asp Leu Glu Asn  
385 390 395 400  
Tyr Ile Ile Ala Leu Gln Ala Val Pro Pro Arg Pro His His Val Phe  
405 410 415  
Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His  
420 425 430  
Thr Leu Lys His Phe Glu His Val Arg Met Val Asp Pro Lys Lys Ala  
435 440 445  
Thr Gln Ile Arg Ser Gln Val Met Thr His Leu Arg Val Ile Tyr Glu  
450 455 460  
Arg Met Asn Gln Ser Leu Ser Leu Leu Tyr Asn Val Pro Ala Val Ala  
465 470 475 480  
Glu Glu Ile Gln Asp Glu Val Asp Glu Leu Leu Gln Lys Glu Gln Asn  
485 490 495  
Tyr Ser Asp Asp Val Leu Ala Asn Met Ile Ser Glu Pro Arg Ile Ser  
500 505 510  
Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu Thr Glu Thr Lys Thr Thr  
515 520 525  
Val Glu Leu Leu Pro Val Asn Gly Glu Phe Ser Leu Asp Asp Leu Gln  
530 535 540  
Pro Trp His Pro Phe Gly Val Asp Ser Val Pro Ala Asn Thr Glu Asn  
545 550 555 560  
Glu Val Glu Pro Val Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr  
565 570 575  
Thr Arg Pro Gly Ser Gly Leu Thr Asn Ile Lys Thr Glu Glu Ile Ser  
580 585 590  
Glu Val Lys Met Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val  
595 600 605  
Arg His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys  
610 615 620  
Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val  
625 630 635 640  
Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile  
645 650 655  
His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg  
660 665 670  
His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys

675 680 685  
Phe Phe Glu Gln Met Gln Asn  
690 695

<210> 97  
<211> 68  
<212> PRT  
<213> Mus musculus

<400> 97  
Ser Glu Pro Arg Ile Ser Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu  
1 5 10 15  
Thr Glu Thr Lys Thr Thr Val Glu Leu Leu Pro Val Asn Gly Glu Phe  
20 25 30  
Ser Leu Asp Asp Leu Gln Pro Trp His Pro Ser Gly Val Asp Ser Val  
35 40 45  
Pro Ala Asn Thr Glu Asn Glu Val Glu Pro Val Asp Ala Arg Pro Ala  
50 55 60  
Ala Asp Arg Gly  
65

<210> 98  
<211> 983  
<212> PRT  
<213> Mus musculus

<400> 98  
Met Lys Ala Gln Gln Ala Met Asp Lys Tyr Glu Gly Asp Ser Lys Ala  
1 5 10 15  
Arg Glu Thr Arg Ser Thr Ala Ala Met Val Gly Trp Arg Ser Asp Arg  
20 25 30  
Gly Leu Val Thr Cys Thr Arg Leu Arg Met Gln Asn Gly Ser Ser Leu  
35 40 45  
Lys Ala Phe Arg Ser Arg Val Gly Lys Trp Gly Glu Pro Ser Ser Arg  
50 55 60  
Ser His Lys Val Leu Lys Thr Ser Glu Thr Ser Gln Asp Ile Gln Lys  
65 70 75 80  
Val Ser Arg Glu Glu Ser Pro Ser Gln Leu Thr Ser Ala Val Pro Ala  
85 90 95  
Gln Arg Asn Cys Gln Pro Gly Ser Ala Ala Val Ile Asn Met Leu Arg  
100 105 110  
Gly Gly Gly Gly Val Arg Ser Pro Trp Thr Asp His His Ile Arg Gln  
115 120 125

Arg Thr Asp His His Ile Arg Gln Pro Leu Phe Pro Ser Arg Arg Ser  
130 135 140  
Pro Gln Glu Asn Glu Asp Asp Asp Asp Tyr Gln Met Phe Val Pro  
145 150 155 160  
Ser Phe Ser Ser Ser Asp Leu Asn Ser Thr Arg Leu Cys Glu Glu Asn  
165 170 175  
Ala Ser Ser Arg Pro Cys Ser Trp His Leu Gly Leu Ile Glu Pro Thr  
180 185 190  
Glu Ile Ser Ser Ser Gly His Arg Ile Val Arg Arg Ala Ser Ser Ala  
195 200 205  
Gly Glu Ser Asn Ala Cys Pro Pro Glu Val Arg Ile Arg Asp Cys Asp  
210 215 220  
Asp Ser Gln Tyr Cys Pro Gly Arg Gln Leu Gln Asn Ser Pro Arg Pro  
225 230 235 240  
Gly Gly Glu Arg Gly Met Thr Pro Tyr Gly Ser Ser Val Glu Leu Thr  
245 250 255  
Ile Asp Asp Ile Asp His Val Tyr Asp Asn Ile Ser Phe Glu Asp Leu  
260 265 270  
Lys Leu Met Val Ala Lys Arg Asp Glu Thr Glu Cys Ser Phe Ser Lys  
275 280 285  
Pro Ser Arg Asp Ser Val Arg Pro Lys Ser Thr Pro Glu Leu Ala Phe  
290 295 300  
Ser Lys Arg Gln Val Ser His Ser Thr Ser Ser Leu His Ser Arg Lys  
305 310 315 320  
Glu Ala Gly Leu Gly Gly Gln Glu Ala Ser Thr Gln Ser Val His Glu  
325 330 335  
His Gln Glu Val Glu Glu Asn Ile Tyr Asp Thr Ile Gly Leu Pro Asp  
340 345 350  
Pro Pro Ser Met Asn Leu Asn His Ser Ser Leu His Gln Pro Lys Arg  
355 360 365  
Ser Thr Phe Leu Gly Leu Glu Ala Asp Phe Ala Cys Cys Asp Ser Leu  
370 375 380  
Arg Pro Phe Val Ser Gln Asp Ser Leu Gln Phe Ser Glu Asp Asp Ile  
385 390 395 400  
Ser Tyr His Gln Gly Pro Ser Asp Thr Glu Tyr Leu Ser Leu Leu Tyr  
405 410 415  
Asp Ser Pro Arg Cys Asn Leu Pro Ile Ala Asp Lys Ala Leu Ser Asp  
420 425 430  
Lys Leu Ser Glu Glu Val Asp Glu Ile Trp Asn Asp Leu Glu Asn Tyr  
435 440 445  
Ile Lys Lys Asn Glu Asp Lys Ser Arg Asp Arg Leu Leu Ala Ala Phe  
450 455 460  
Pro Val Ser Lys Asp Asp Ala Pro Glu Arg Leu Tyr Val Asp Ser Thr

465	470	475	480
His	Glu	Leu	Gly
Arg	Asp	Thr	Gly
Asn	Thr	Gly	His
Ala	Leu	Ala	Leu
485	490	495	
Pro	Thr	Ser	Gln
Thr	Phe	Leu	Leu
Pro	Gly	Lys	Ser
		Arg	Val
500	505	510	Val
Ala	Ser	Arg	Arg
Ala	Asn	Cys	Asn
Cys	Ser	Leu	Asp
Ser	Asn	Asp	Ile
Ile	Ser	Thr	Glu
515	520	525	
Gly	Ser	Phe	Leu
Leu	Ser	Leu	Asn
Asn	Gln	Leu	Ser
Leu	Ala	Ser	Asp
530	535	540	Gly
Pro	Val	Asp	Asn
Asn	Pro	Tyr	Asp
Leu	Ala	Asn	Cys
		Ser	Ser
545	550	555	Gln
Asp	Pro	Glu	Thr
Asn	Pro	Asp	Asp
Pro	Gly	Met	Lys
		Glu	Thr
565	570	575	Lys
Ser	Arg	Val	Phe
Met	Met	Ala	Arg
Ala	Arg	Gln	Tyr
		Tyr	Ser
580	585	590	Gln
Val	Asn	Gln	Ile
Ile	Leu	Lys	Leu
Val	Lys	Ser	Pro
		Glu	Glu
595	600	605	Gln
Ser	Ser	Gln	Pro
His	Arg	Pro	Pro
		Ser	Gln
610	615	620	Ala
Glu	Lys	Arg	Ile
Gln	Gly	Gly	Leu
		Pro	Glu
625	630	635	Tyr
Ser	Gln	Leu	Tyr
Leu	Tyr	Asp	Gln
Ile	Val	Phe	Ile
645	650	655	Val
Gln	Lys	Asp	Arg
		Gly	Pro
660	665	670	Trp
Val	Ser	Pro	Ala
Pro	Gln	Gln	Gly
		Ala	Gly
675	680	685	Glu
Ser	Pro	Tyr	Asp
Ser	Asn	Gly	Glu
Asp	Leu	Ala	Asp
		Phe	Ser
690	695	700	Pro
Gln	Asp	Ser	Gln
Ser	Lys	Ser	Tyr
Lys	Tyr	Pro	Ile
		Thr	Leu
705	710	715	Glu
Ile	Arg	Pro	Ser
Arg	Gln	Leu	Gly
		Ser	Ala
725	730	735	Cys
Val	Ser	Asp	Ser
Asp	Pro	Leu	Val
		Gly	Gly
740	745	750	Ser
Val	Ser	Gln	Gln
Gln	Pro	His	Arg
Lys	Glu	Asn	Cys
		Ser	Ser
755	760	765	Pro
Ser	Leu	Gly	Leu
Arg	Arg	Lys	Asn
		Ala	Ser
770	775	780	Ala
Pro	Gln	Ser	Leu
Ser	Ser	Ser	Ile
		Ser	Asn
785	790	795	Ile
Asn	Tyr	Pro	Asp
		Ser	Ser
805	810	815	Gln
			Lys

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Ser Pro Arg Gly Ala Ser Gln Gln Asp Leu Pro Ser Gly Leu Ala Asn  
                   820                  825                  830  
 Ser Cys Gln Gln Asp Arg Gly Lys Arg Ser Asp Leu Thr Leu Gln Asp  
                   835                  840                  845  
 Ser Gln Lys Val Leu Val Val Asn Arg Asn Leu Pro Leu Ser Ala Gln  
                   850                  855                  860  
 Ile Ala Thr Gln Asn Tyr Phe Cys Asn Phe Lys Asp Pro Glu Gly Asp  
                   865                  870                  875                  880  
 Glu Asp Asp Tyr Val Glu Ile Lys Ser Glu Glu Asp Glu Val Arg Leu  
                   885                  890                  895  
 Asp Leu Ser Pro Arg Arg Gly Arg Lys Ser Asp Pro Gln Thr Pro Asp  
                   900                  905                  910  
 Pro Asp Cys Ser Asp Ser Ile Cys Ser His Ser Thr Pro Tyr Ser Leu  
                   915                  920                  925  
 Lys Glu Pro Val Ser Gly Arg Leu Gly Leu Pro Pro Tyr Leu Thr Ala  
                   930                  935                  940  
 Cys Lys Asp Ser Asp Lys Leu Asn Asp Tyr Leu Trp Arg Gly Pro Ser  
                   945                  950                  955                  960  
 Pro Asn Gln Gln Asn Ile Val Gln Ser Leu Arg Glu Lys Phe Gln Cys  
                   965                  970                  975  
 Leu Ser Ser Ser Ser Phe Ala  
                   980

<210> 99  
 <211> 46  
 <212> PRT  
 <213> Mus musculus

<400> 99  
 Phe Met Met Ala Arg Gln Tyr Ser Gln Lys Ile Lys Lys Val Asn Gln  
 1                  5                  10                  15  
 Ile Leu Lys Val Lys Ser Pro Glu Leu Glu Gln Pro Pro Ser Ser Gln  
                   20                  25                  30  
 His Arg Pro Ser His Lys Asp Leu Ala Ala Ile Leu Glu Lys  
                   35                  40                  45

<210> 100  
 <211> 412  
 <212> PRT  
 <213> Mus musculus

<400> 100  
 Met Ala Asn Val Ala Asp Thr Lys Leu Tyr Asp Ile Leu Gly Val Pro

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1	5	10	15												
Pro	Gly	Ala	Ser	Glu	Asn	Glu	Leu	Lys	Lys	Ala	Tyr	Arg	Lys	Leu	Ala
				20				25					30		
Lys	Glu	Tyr	His	Pro	Asp	Lys	Asn	Pro	Asn	Ala	Gly	Asp	Lys	Phe	Lys
						35		40				45			
Glu	Ile	Ser	Phe	Ala	Tyr	Glu	Val	Leu	Ser	Asn	Pro	Glu	Lys	Arg	Glu
					50		55				60				
Leu	Tyr	Asp	Arg	Tyr	Gly	Glu	Gln	Gly	Leu	Arg	Glu	Gly	Ser	Gly	Gly
					65		70			75			80		
Gly	Gly	Gly	Met	Asp	Asp	Ile	Phe	Ser	His	Ile	Phe	Gly	Gly	Gly	Leu
					85				90			95			
Phe	Gly	Phe	Met	Gly	Asn	Gln	Ser	Arg	Ser	Arg	Asn	Gly	Arg	Arg	Arg
					100			105				110			
Gly	Glu	Asp	Met	Met	His	Pro	Leu	Lys	Val	Ser	Leu	Glu	Asp	Leu	Tyr
					115			120				125			
Asn	Gly	Lys	Thr	Thr	Lys	Leu	Gln	Leu	Ser	Lys	Asn	Val	Leu	Cys	Ser
					130		135				140				
Ala	Cys	Ser	Gly	Gln	Gly	Gly	Lys	Ser	Gly	Ala	Val	Gln	Lys	Cys	Ser
					145		150			155			160		
Ala	Cys	Arg	Gly	Arg	Gly	Val	Arg	Ile	Met	Ile	Arg	Gln	Leu	Ala	Pro
					165				170			175			
Gly	Met	Val	Gln	Gln	Met	Gln	Ser	Val	Cys	Ser	Asp	Cys	Asn	Gly	Glu
					180			185				190			
Gly	Glu	Val	Ile	Asn	Glu	Lys	Asp	Arg	Cys	Lys	Cys	Glu	Gly	Lys	
					195			200				205			
Lys	Val	Ile	Lys	Glu	Val	Lys	Ile	Leu	Glu	Val	His	Val	Asp	Lys	Gly
					210		215				220				
Met	Lys	His	Gly	Gln	Arg	Ile	Thr	Phe	Thr	Gly	Glu	Ala	Asp	Gln	Ala
					225		230			235			240		
Pro	Gly	Val	Glu	Pro	Gly	Asp	Ile	Val	Leu	Leu	Leu	Gln	Glu	Lys	Glu
					245				250			255			
His	Glu	Val	Phe	Gln	Arg	Asp	Gly	Asn	Asp	Leu	His	Met	Thr	Tyr	Lys
					260			265				270			
Ile	Gly	Leu	Val	Glu	Ala	Leu	Cys	Gly	Phe	Gln	Phe	Thr	Phe	Lys	His
					275			280				285			
Leu	Asp	Ala	Arg	Gln	Ile	Val	Val	Lys	Tyr	Pro	Pro	Gly	Lys	Val	Ile
					290		295				300				
Glu	Pro	Gly	Cys	Val	Arg	Val	Val	Arg	Gly	Glu	Gly	Met	Pro	Gln	Tyr
					305		310			315			320		
Arg	Asn	Pro	Phe	Glu	Lys	Gly	Asp	Leu	Tyr	Ile	Lys	Phe	Asp	Val	Gln
					325			330			335				
Phe	Pro	Glu	Asn	Asn	Trp	Ile	Asn	Pro	Asp	Lys	Leu	Ser	Glu	Leu	Glu
					340			345			350				

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Asp Leu Leu Pro Ser Arg Pro Glu Val Pro Asn Val Ile Gly Glu Thr  
355 360 365  
Glu Glu Val Glu Leu Gln Glu Phe Asp Ser Thr Arg Gly Ser Gly Gly  
370 375 380  
Gly Gln Arg Arg Glu Ala Tyr Asn Asp Ser Ser Asp Glu Glu Ser Ser  
385 390 395 400  
Ser His His Gly Pro Gly Val Gln Cys Ala His Gln  
405 410

<210> 101  
<211> 25  
<212> PRT  
<213> Mus musculus

<400> 101  
Leu Ser Asn Pro Glu Lys Arg Glu Leu Tyr Asp Arg Tyr Gly Glu Gln  
1 5 10 15  
Gly Leu Arg Glu Gly Ser Gly Gly  
20 25

<210> 102  
<211> 29  
<212> PRT  
<213> Mus musculus

<400> 102  
Ala His Ser Phe Ser Val Phe Arg Leu Pro Ser Trp Trp Ile Val Gly  
1 5 10 15  
Trp Trp Ser Lys Gly Gly Val Gly Ser Asp Leu Glu Met  
20 25

<210> 103  
<211> 35  
<212> PRT  
<213> Mus musculus

<400> 103  
Pro Asp Ile Lys His Pro Gly Asn Leu Glu His Tyr Ile Lys Arg Val  
1 5 10 15  
Asn Leu Arg Ile Ile Ala Ile Glu Glu Gly Glu Lys Ser Gln Leu Lys  
20 25 30  
Gly Pro Lys  
35

<210> 104  
<211> 573  
<212> DNA  
<213> *Mus musculus*

<400> 104

atgccattga ggcattctagc agacagattg gggcatctgg cagacagact gaggcatcta 60  
acagacagat tgaggcatct agcagacaga ctgaggcatc taacagacag actgaggcat 120  
ctagcagaca gactgaagca tctagcagac agactgaaac atctaacaga cagattgggg 180  
catctaacag acagatcatg gcatctaaca gacagattgg ggcattctaa acagagattg 240  
aggcatctaa cagacagatt gggcatcta acagacagac agaggtatct agcagacaga 300  
ttgaggcatc taacagacag attggggcat ctaacagaca aactgaggca tctaaacagac 360  
agattgggc atctaacaga cagactgagg catctaacag acagattgg gcatctaaca 420  
gacagactga tgcattctaa acagagactg atgcattctaa cagacagact gaggcatcta 480  
gcagacagac agaggcatct agcagacaga cagaggcatc tagcagacag actgaggcat 540  
ctagcagaca aattgaggca tcagctgcag ctg 573

<210> 105  
<211> 213  
<212> DNA  
<213> *Mus musculus*

<400> 105

attgaggcat ctaacagaca gattgggcata tctaaacagac aaactgaggc atctaacaga 60  
cagattgggc atctaacaga cagactgagg catctaacag acagattgg gcatctaaca 120  
gacagactga tgcattctaa acagagactg atgcattctaa cagacagact gaggcatcta 180  
gcagacagac agaggcatct agcagacaga ctg 213

<210> 106  
<211> 165  
<212> DNA  
<213> *Mus musculus*

<400> 106

gacaaactga ggcattctaa acagacattg gggcatctaa cagacagact gaggcatcta 60  
acagacagat tggggcatct aacagacaga ctgatgcattc taacagacag actgatgcatt 120  
ctaaacagaca gactgaggca tctagcagac agacagaggc acgac 165

<210> 107  
<211> 135  
<212> DNA  
<213> *Mus musculus*

<400> 107  
gacagattgg ggcataac agacagactg aggcataa cagacagatt gggcatct 60  
acagacagac tcatgcattt aacagacaga ctgatgcatt taacagacag actgaggcat  
ctatcattttt gacag 120  
135

<210> 108  
<211> 135  
<212> DNA  
<213> *Mus musculus*

<400> 108  
gacagattgg ggcataac agacagactg aggcataa cagacagatt gggacatct 60  
acagacagac tcatgcattt aacagacaga ctgatgcatt taacagacag actgaggcat  
ctatcattttt gacag 120  
135

<210> 109  
<211> 135  
<212> DNA  
<213> *Mus musculus*

<400> 109  
gacagattgg ggcataac agacagactg aggcataa cagacagatt gggcatct 60  
acagacagac tcatgcattt aacagacaga ctgatgcatt taacagatag actgaggcat  
ctatcattttt gacag 120  
135

<210> 110  
<211> 135  
<212> DNA  
<213> *Mus musculus*

<400> 110  
gacagattgg ggcataac agacagactg aggcataa cagacagatt gggcatct 60  
acggacagac tcatgcattt aacagacaga ctgatgcatt taacagacag actgaggcat  
ctatcattttt gacag 120  
135

<210> 111  
<211> 135  
<212> DNA  
<213> *Mus musculus*

<400> 111  
gacagattgg ggcataac agacagactg aggcataa cagacagatt gggcatct 60

acagacagac t<sub>gatgc</sub>atct aacagacaga c<sub>tgc</sub>atgc<sub>atc</sub> taacagacag a<sub>ctg</sub>agacat 120  
ct<sub>gc</sub>atgc<sub>tca</sub> gacag 135

<210> 112

<211> 135

<212> DNA

<213> *Mus musculus*

<400> 112

gacagattgg ggcgtcta<sub>ac</sub> agacagactg aggcatctaa cagacagatt gggcatct<sub>a</sub> 60  
acagacagac t<sub>gatgc</sub>atct aacagacaga c<sub>tgc</sub>atgc<sub>atc</sub> taacagacag a<sub>ctg</sub>aggcat 120  
ct<sub>gc</sub>atgc<sub>tca</sub> gacag 135

<210> 113

<211> 135

<212> DNA

<213> *Mus musculus*

<400> 113

gacagattgg ggcgtcta<sub>ac</sub> agacagactg aggcatctaa cagacagatt gggcatct<sub>a</sub> 60  
acagacaggc t<sub>gatgc</sub>atct aacagacaga c<sub>tgc</sub>atgc<sub>atc</sub> taacagacag a<sub>ctg</sub>aggcat 120  
ct<sub>gc</sub>atgc<sub>tca</sub> gacag 135

<210> 114

<211> 135

<212> DNA

<213> *Mus musculus*

<400> 114

gacagattgg ggcatcta<sub>ac</sub> agacagactg aggtatctaa cagacagatt gggcatct<sub>a</sub> 60  
acagacagac t<sub>gatgc</sub>atct aacagacaga c<sub>tgc</sub>atgc<sub>atc</sub> taacagacag a<sub>ctg</sub>aggcat 120  
ct<sub>gc</sub>atgc<sub>tca</sub> gacag 135

<210> 115

<211> 135

<212> DNA

<213> *Mus musculus*

<400> 115

gacagattgg ggcatcta<sub>ac</sub> agacagactg aggcatctaa cagacagatt gggcatct<sub>a</sub> 60  
acagacagac t<sub>gatgc</sub>atct aacagacaga c<sub>tgc</sub>atgc<sub>atc</sub> taacagacag a<sub>ctg</sub>aggcat 120  
ct<sub>gc</sub>atgc<sub>tca</sub> gacag 135

<210> 116  
 <211> 135  
 <212> DNA  
 <213> *Mus musculus*

<400> 116  
 gacagattgg ggcataaac agacagactg aagcatctaa cagacagatt gggcatcta 60  
 acagacagac tgatccatct aacagacaga ctgatgcatt taacagacag actgaggcat 120  
 ctagcagtca gacag 135

<210> 117  
 <211> 135  
 <212> DNA  
 <213> *Mus musculus*

<400> 117  
 ggcagattgg ggcataaac agacagactg aggcatctaa cagacagatt gggcatcta 60  
 acagacagac tgatgcatt aacagacaga ctgatgcatt taacagacag actgaggcat 120  
 ctagcggtca gacag 135

<210> 118  
 <211> 114  
 <212> DNA  
 <213> *Mus musculus*

<400> 118  
 gacagattga ggcatttagc agacagactg aggcatctaa ccgacagact gaggcatcta 60  
 gcagacagac tgaagcatct agcagacaga ctgaaaacatc taacaaacag aaag 114

<210> 119  
 <211> 552  
 <212> DNA  
 <213> *Mus musculus*

<400> 119  
 atgccattga ggcatttagc agacagattg gggcatctgg cagacagact gaggcatcta 60  
 acagacagat tgaggcatct agcagacaga ctgaggcatc taacagacag actgaggcat 120  
 ctagcagaca gactgaggca tctagcagac agactgaaac atctaacaga cagattgggg 180  
 catctaacag acagatcatg gcatctaaca gacagattgg ggcataaac agacagattg 240  
 aggcatctaa cagacagatt gggcatcta acagacagac agaggtatct agcagacaga 300  
 ttgaggcatc taacagacag attggggcat ctaacagaca gactgaggca tctaacagac 360  
 agattggggc atctaacaga cagactgagg catctaacag acagattgg gcatctaaca 420  
 gacagactga tgcataaac agacagactg aggcatctag cagacagaca gaggcatcta 480

gcagacagac	agaggcatct	gcagacaga	ctgaggcatc	tagcagacaa	attgaggcat	540
cagctgcagc	tg					552
<210> 120						
<211> 237						
<212> DNA						
<213> <i>Mus musculus</i>						
<400> 120						
aaaaaagtga	aaaccttcaa	agcgcaaaac	tccgagctgg	catccacggc	caacacgctc	60
agggAACAGG	tggcactgct	taagcagaaa	gtcatgaacc	acgttaacag	tgggtgcCAA	120
ctcatgctaa	cgcagcagtt	gcaaACGTT	tggAACAGA	ctgtcaggc	tgagggcAA	180
tggaagaaaa	aaaataacag	agacaaactt	gagaacttga	ctggtgcga	cagagaaa	237
<210> 121						
<211> 228						
<212> DNA						
<213> <i>Mus musculus</i>						
<400> 121						
cggatcaagg	cagagaggaa	gcgcatgagg	aaccgcattt	ccgcctccga	gtgccggaaa	60
aggaagctgg	agcggatcgc	tggcttagag	aaaaaagtga	aaaccttcaa	agcgcaaaac	120
tccgagctgg	catccacggc	caacatgctc	aggAACAGG	tggcacagct	taagcagaaa	180
gtcatgaacc	acgttaacag	tgggtgcAA	ctcatgctaa	cacagcag		228
<210> 122						
<211> 149						
<212> DNA						
<213> <i>Mus musculus</i>						
<400> 122						
ggcatctgg	cagacagact	gaggcatcta	acagacagat	tgaggcatct	agcagacaga	60
ctgaggcatc	taacagacag	actgaggcat	ctagcagaca	gactgaggca	tctagcagac	120
agactgaaac	atctaacaga	cagatatgg				149
<210> 123						
<211> 168						
<212> DNA						
<213> <i>Mus musculus</i>						
<400> 123						
catctaacag	acagactgag	gcatctaaca	gacagattgg	ggcatctaac	agacagactg	60
aggcatctaa	cagacagatt	gaggcatcta	acagacagac	tgtgcata	aacagacaga	120

ctggggcatc tagcagacag acagaggcat ctagcagaca gacagaga 168

<210> 124  
<211> 132  
<212> DNA  
<213> *Mus musculus*

<400> 124

gcagacagat tggggcatct ggcagacaga ctgaggcatc taacagacag attgaggcat 60  
ctagcagaca gactgaggca tctaacagac agactgaggc atttagcaga cagactgagg 120  
catctagcag ac 132

<210> 125  
<211> 132  
<212> DNA  
<213> *Mus musculus*

<400> 125

gcagacagat tggggcatct ggcagacaga ctgaggcatc taacagacag attgaggcat 60  
ctagcagaca gactgagaca tctaacagac agactgaggc atttagcaga cagactgagg 120  
catctagcag ac 132

<210> 126  
<211> 81  
<212> DNA  
<213> *Mus musculus*

<400> 126

gcagacagac tgaggcatct aacagacaga ttgaggcatc tagcagacag actgaggcat 60  
ctaacagaca gactgaggca c 81

<210> 127  
<211> 159  
<212> DNA  
<213> *Mus musculus*

<400> 127

acagacagat tggggcatct aacagacaga ctgaggcatc taacagacag attggggcat 60  
ctaacagaca gactgaggca tctaacagac agattggggc atctaacaga cagactgatg 120  
catctaacag acagactgag gcatctagca gacagaccg 159

<210> 128  
<211> 138

<212> DNA

<213> Mus musculus

<400> 128

agacagaggc atctaacaga cagactgagg catctaacag acagattggg gcatctaaca 60  
gacagactga ggcataaac agacagattg gggcatctaa cagacagact gatgcata 120  
acagacagac tgaggccc 138

<210> 129

<211> 117

<212> DNA

<213> Mus musculus

<400> 129

gacagattga gccatctagc agacagactg aggcataa cagacagact gaggcatcta 60  
acagacagat tgggcatact aacagacaga ctgaggcatac tagcagacag acagagg 117

<210> 130

<211> 117

<212> DNA

<213> Mus musculus

<400> 130

gacagattga ggcatactagc agacagactg aggcataa cagacagact gaggcatcta 60  
acagacagat tgggcatact aacagacaga ctgaggcatac tagcagacag acagagg 117

<210> 131

<211> 117

<212> DNA

<213> Mus musculus

<400> 131

ggcagattga ggcatactagc agacagactg aggcataa cagacagact gaggcatcta 60  
acagacagat tgggcatact aacagacaga ctgaggcatac tagcagacag acagagg 117

<210> 132

<211> 129

<212> DNA

<213> Mus musculus

<400> 132

tatcttagcag acagattgag gcatctaaca gacagattgg ggcatactgac agacaggctg 60  
aggcatctaa cagacagatt gggcatcta acagacagac tgaggcatct aacagacaga 120

ttggggcaa	129
<210> 133	
<211> 129	
<212> DNA	
<213> <i>Mus musculus</i>	
<400> 133	
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aggcatctaa cagacagatt gggcatcta acagacagac tgaggcatct aacagacaga	120
ttggggcaa	129
<210> 134	
<211> 228	
<212> DNA	
<213> <i>Mus musculus</i>	
<400> 134	
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aggaagctgg agcggatcgc tcggcttagag gaaaaagtga aaaccttgaa agcgcaaaac	120
tccgagctgg catccacggc caacatgctc agggAACAGG tggcacagct taagcagaaa	180
gtcatgaacc acgttaacag tgggtgccaa ctcatgctaa cacagcag	228
<210> 135	
<211> 132	
<212> DNA	
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<400> 135	
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agactgatgc atctaacaga cagactgagg catctagcag acagacagag gcatctagca	120
gacagacaga aa	132
<210> 136	
<211> 108	
<212> DNA	
<213> <i>Mus musculus</i>	
<400> 136	
ttggggcatc taacagacag actgaggcat ctaacagaca gattggggca tctaacagac	60
agactgatgc atctaacaga cagactgagg catctagcag acacccag	108
<210> 137	

<211> 132

<212> DNA

<213> *Mus musculus*

<400> 137

gggcatctaa cagacagact gaggcatcta acggacagat tggggcatct aacagacaga 60  
ctgaggcatc taacagacag attggggcat ctaacagaca gactgatgca tctaacagac 120  
agactgaggc ac 132

<210> 138

<211> 132

<212> DNA

<213> *Mus musculus*

<400> 138

gggcatctaa cagacagact gaggcatcta acagacagat tggggcatct aacagacaga 60  
ctgaggcatc taacagacag attggggcat ctaacagaca gactgatgca tctaacagac 120  
agactgaggc ac 132

<210> 139

<211> 153

<212> DNA

<213> *Mus musculus*

<400> 139

aggcatctaa cagacagatt ggggcatcta acagacagac tgaggcatct aacagacaga 60  
ttggggcatc taacagacag actgatgcat ctaacagaca gactgaggca tctagcagac 120  
agacagaggc atctagcaga caggcagagg cac 153

<210> 140

<211> 153

<212> DNA

<213> *Mus musculus*

<400> 140

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agacagaggc atctagcaga cagacagagg cac 153

<210> 141

<211> 1752

<212> DNA

<213> *Mus musculus*

&lt;400&gt; 141

atgtcccatc	aacctctgag	ctgcctgact	gagaaggggg	acagcccttg	tgagacccca	60
gaaaatggac	cctccatat	ggttccacccc	agcctggaca	cattcacccc	tgaggagctg	120
ctgcagcaa	tgaaggaact	cctgggttag	aaccaccagc	tgaagaagac	catgaagcta	180
aataatcaag	ctatgaaagg	gcgattttag	gagctgtccg	cctggacaga	gaagcagaag	240
gaagagcgcc	tgttgttga	gatgcaaagc	aaagaggtta	aggagcgcct	taaggccctg	300
actcatgaaa	atgagaggct	gaaggaagag	cttggaaaat	tcaaagagaa	atcagaaaaag	360
ccattggaag	acctcacagg	tggctacagg	tatcccagag	ccttggagga	ggaagtggag	420
aagctgaaga	cccaggtgga	gcaggaagtg	gagcatctga	agatccaggt	gatgcgcctt	480
cgggctgaaa	aggcagaccc	gctggcattc	gtctcagaac	tgcaagctcaa	actcaactcc	540
ggcggctcct	cggaagactc	cttcgtttag	atcaggatga	ccgaaggaga	gactgaaggg	600
gcaatgaagg	agatgaagaa	ctgcccata	cccacaagaa	cagacccat	cagctttagc	660
aactgtacag	aggatgccag	gagttgtcg	gagttttaga	aactgactgt	gagccagctt	720
ctgctttgcc	taagggaaagg	aaacccaaag	gtggagagac	ttgaagtcgc	cctcagagaa	780
gccaaagaaa	gaatttcaga	ttttgaaaag	aaagcaaattg	gccattcttc	tactgagaag	840
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gactgcatca	tt					1752

&lt;210&gt; 142

&lt;211&gt; 324

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 142

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gc当地ctcgg	aagactcctt	cgttgagatc	aggatgaccg	aaggagagac	tgaagggca	180
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<210> 143

<211> 186

<212> DNA

<213> Mus musculus

<400> 143

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<210> 144

<211> 186

<212> DNA

<213> Mus musculus

<400> 144

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acaaga 120  
180  
186

<210> 145

<211> 186

<212> DNA

<213> Mus musculus

<400> 145

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acaaga 120  
180  
186

<210> 146

<211> 306

<212> DNA

<213> Mus musculus

<400> 146

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60/79

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gattcg	306

&lt;210&gt; 147

&lt;211&gt; 249

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 147

gccctaagga agtggaaaggg gatgtttagt cgactgcagg agctccgcaa ggaggtggaa	60
accctgtgc gtctaaaggc ggctctacac gaccaactga accgcctcaa gttgaagaa	120
ttagcccttc aatccatgat aaattctcga ggaaggaccg agacactgtc ttctcagcct	180
gcacctgaac agttatgtga tatgtcccta catgtagaca acgaagtgac aataaatcag	240
actaggccg	249

&lt;210&gt; 148

&lt;211&gt; 237

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 148

aggaagtgga aggggacgtt gagtcgactg caggagctcc gcaaggaggt ggaaaccccg	60
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gaacagttat gtgatatgtc cctacatgta gacaacgaag tgacaataaa tcagact	237

&lt;210&gt; 149

&lt;211&gt; 1239

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 149

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cgaacggact cagtcatcat tgcagatcaa acgcctactc caactagatt cctgaagaac	180
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actgcactac agaaaaagac tcaaggctac ctaggtaa	1239

&lt;210&gt; 150

&lt;211&gt; 168

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 150

cgatgccggc aaaagcgaa actgtgggtg tcctccctgg aaaagaaggc agaagaactt	60
acttctcaga acattcagct gagtaatgaa gtcacattac tacgcaatga ggtggctcag	120
ctgaaggcagc tactgttagc tcataaaagat tgtccagtca ccgcacaa	168

&lt;210&gt; 151

&lt;211&gt; 3093

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 151

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gacatcaagg gaatgggcac tgttcaaaaaa ggaatgcct gtaagtgtt ccacggcaaa	180
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tccctagaga	agg	acatcc	tttgggcca	tttgggcca	tttgggcca	2520
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aaatttgc	tt	atgatct	tttgggcca	tttgggcca	tttgggcca	2640
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ggacctctgc	actt	ccct	tttgggcca	tttgggcca	tttgggcca	3060
ccacagaaat	gct	acc	tttgggcca	tttgggcca	tttgggcca	3093

&lt;210&gt; 152

&lt;211&gt; 210

&lt;212&gt; DNA

<213> Mus musculus

<400> 152

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ctcaagagag	agatccagga	gagggacgag	accattcaag	acatggagaa	gcttgactac	180
aaggacgatt	ataattcaaa	cctagagatc				210

<210> 153

<211> 168

<212> DNA

<213> Mus musculus

<400> 153

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<210> 154

<211> 651

<212> DNA

<213> Mus musculus

<400> 154

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<210> 155

<211> 150

<212> DNA

<213> Mus musculus

<400> 155

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64/79

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aagataaaag	cctccctgaa	gaagaagagg				150

&lt;210&gt; 156

&lt;211&gt; 420

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 156

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cacttcatct	taccatttat	tatcgccggcc	ctagcaatcg	ttcacctcct	tttcctccac	180
gaaacaggat	caaacaaccc	aacaggatta	aactcagatg	cagataaaat	tccatttcac	240
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ctagtattat	ttttccaga	catactagga	gaccagaca	actacatacc	agctaatcca	360
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&lt;210&gt; 157

&lt;211&gt; 123

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 157

tcagatgcag	ataaaaattcc	atttcacccc	tactatacaa	tcaaaaatat	cctaggtatc	60
ctaattcatat	tcttaattct	cataacccta	gtattatttt	tcccagacat	actaggagac	120
cca						123

&lt;210&gt; 158

&lt;211&gt; 933

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 158

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aaccgcttct	gggattacct	gcgctgggtg	cagacgctgt	ctgaccaggt	ccaggaagag	180
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<210> 159

<211> 90

<212> DNA

<213> *Mus musculus*

<400> 159

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<210> 160

<211> 2085

<212> DNA

<213> *Mus musculus*

<400> 160

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gttgcgaaca	aaggcgccat	catcgactc	atgggtggcg	gcgttgcatt	agcaaccgtg	1920
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gtggaggcgt	acgcccgcgt	gaccccgag	gagcgccatc	tctccaagat	gcagcagaac	2040
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<210> 161

<211> 201

<212> DNA

<213> *Mus musculus*

<400> 161

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accaccgtgg	agctcattcc	cgtgaatggg	gaattcagcc	tggatgacct	ccagccgtgg	120
cacccttctg	gggtggactc	tgtgccagcc	aataccgaaa	atgaggtcga	gcctgttgcac	180
ggccgccccg	ctgctgaccg	a				201

<210> 162

<211> 1236

<212> DNA

<213> *Mus musculus*

<400> 162

atggcgaacg	tggccgacac	gaagctgtac	gacatcctgg	gcgtccctcc	cggcgctagc	60
gagaacgagc	tgaagaaggc	ataccgaaag	ttagccaaag	aataccaccc	tgataagaat	120
ccaaatgtcg	gagacaaatt	taaagaaata	agttttgcatt	atgaagtatt	gtcaaatcca	180
gagaagcggag	agctgtatga	cagatatgg	gaacaaggcc	tacggaaagg	cagcggcgg	240
ggcgggtggaa	tggatgatat	cttctcacat	atttttgggt	gaggattgtt	tggctttatg	300
ggcaatcaga	gtagaagtcg	aaatggcaga	agaagaggcg	aggacatgtat	gcatccacta	360
aaagtatctt	tagaagacct	gtacaatggc	aagacaacca	aactacaact	tagcaagaat	420
gtgctctgt	gtgcattgcag	tggccaaagg	ggaaagtctg	gagctttca	gaaatgcagc	480
gcttgcggg	gtcgagggtgt	gcgcattatg	atcagacagc	tggctccagg	aatgggtcg	540
cagatgcagt	ccgtgtgctc	cgactgtat	ggagaagggg	aggtcataa	tgaaaaagac	600
cgctgtaaaa	aatgtgaagg	gaagaaaggta	atcaaagaag	tcaagattct	ggaagtccat	660

67/79

gtagacaaaag	gcatgaaaca	tggacagagg	attacgttca	ctgggaaagc	agaccaggct	720
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&lt;210&gt; 163

&lt;211&gt; 75

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 163

ttgtcaatc	cagagaagcg	agagctgtat	gacagatatg	gagaacaagg	cctacggaa	60
ggcagcggag	gaggc					75

&lt;210&gt; 164

&lt;211&gt; 2949

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 164

atgaaggctc	agcaggccat	ggacaaat	taaaggagata	gcaaggcgag	ggagacccgg	60
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agctttgccc						2949

&lt;210&gt; 165

&lt;211&gt; 138

&lt;212&gt; DNA

<213> *Mus musculus*

&lt;400&gt; 165

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aaaagccca	agttggagca	accaccgtcc	agtcagcata	ggcccagtca	caaagacctg	120
cgcccatct	tggaaaag					138

<210> 166

<211> 87

<212> DNA

<213> *Mus musculus*

<400> 166

gcacactcat tctccgtttt cagactcccg agttggtgga ttgtggctg gtggagcaaa 60  
ggtggagtag gctctgattt agaaatg 87

<210> 167

<211> 105

<212> DNA

<213> *Mus musculus*

<400> 167

cctgatataa aacatccagg aaatctggaa cactatataa aaagagtaaa cctaagaata 60  
atagcaatag aagaaggaga aaaatcccag ctc当地aggcc cgaaa 105

<210> 168

<211> 5172

<212> DNA

<213> Artificial Sequence

<220>

<223> vector CMV-FosCBPzz

<400> 168

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cccattgacg tcaataatga cgtatgttcc catagttaacg ccaataggga ctttccattg 180  
acgtcaatgg gtggagtatt tacggtaaac tgcccacttgc acgtacatc aagtgtatca 240  
tatgccaatg acgcccccta ttgacgtcaa tgacggtaaa tggccgcct ggcattatgc 300  
ccagttacatg accttatggg actttcctac ttggcagttac atctacgtat tagtcatcgc 360  
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tcaacgggac tttccaaaat gtcgttaacaa ctccgccttca ttgacgcggaa tggcggtag 540  
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gcgtgtacgc caagctcgaa attaaccctc actaaaggaa acaaaagctg gagctccacc 660  
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actccg	ccca	tccccc	cc	cc	cc	3000
ctaattttt	ttat	atgc	cc	cc	cc	3060
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aggatcg	ttt	ccat	cc	cc	cc	3180
cgcatgatt	cc	ccat	cc	cc	cc	3240
ggagagg	cc	ccat	cc	cc	cc	3300
ttcgg	cc	ccat	cc	cc	cc	3360
ttcgg	cc	ccat	cc	cc	cc	3420
ctgcaagac	cc	ccat	cc	cc	cc	3480

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&lt;210&gt; 169

&lt;211&gt; 70

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer 5' SP6(029)T7-FosCBPzz

&lt;400&gt; 169

gaatttagt	gacactatag	aacaacaaca	acaacaaaca	acaacaaaat	ggctagcatgc	60
actgggtggac						70

&lt;210&gt; 170

72/79

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer 3' FosCBPzz

&lt;400&gt; 170

ggatctccat tcgccattca

20

&lt;210&gt; 171

&lt;211&gt; 89

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; DNA bait template DNA-Fos/Jun

&lt;400&gt; 171

cgactctgac ggcagttac gtgactcatg agtcatgact catgagtcat gactcatgag 60  
tcacgttaga acgcggctac aattaatac 89

&lt;210&gt; 172

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer 5' DNA

&lt;400&gt; 172

cgactctgac ggcagttac g

21

&lt;210&gt; 173

&lt;211&gt; 26

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; PCR primer 3' DNA

&lt;400&gt; 173

gtattaattg tagccgcgtt ctaacg

26

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<212> DNA

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<220>

<223> main chain of adaptor (029)

<400> 174

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cgaattc 67

<210> 175

<211> 68

<212> DNA

<213> Artificial Sequence

<220>

<223> main chain of adaptor (029-2)

<400> 175

gaacaacaac aacaacaaac aacaacaaaa tggctagcat gactggtgga cagcaaatgg 60  
cgaattcc 68

<210> 176

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> random primer for reverse transcription

<220>

<221> misc\_feature

<222> (24)..(32)

<223> n = a, t, g or c

<400> 176

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32

<210> 177

<211> 58

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR 5' primer (029)

<400> 177

ggaagatcta tttaggtgac actatagaac aacaacaaca acaaacaaca acaaaaatg 58

<210> 178

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR 3' primer

<400> 178

tttttttct tgtcgcatc gtcctttagt tcaagc 36

<210> 179

<211> 3851

<212> DNA

<213> Artificial Sequence

<220>

<223> pDrive vector

<400> 179

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cactcattag gcaccccagg ctttacactt tatgcttccg gctcgatgt tgtgtggaat 180  
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77/79

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